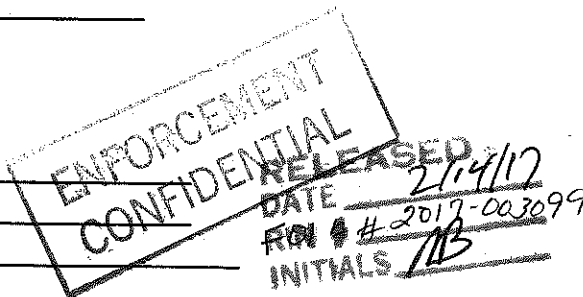


**CORRECTIVE ACTION STABILIZATION QUESTIONNAIRE**

Completed by: Mary Wojciechowski  
Date: April 22, 1993

**Background Facility Information**

Facility Name: Riechold Chemicals, Inc.  
EPA Identification No.: MID 020 087 128  
Location (City, State): Ferndale, Michigan  
Facility Priority Rank: High



1. Is this checklist being completed for one solid waste management unit (SWMU), several SWMUs, or the entire facility? Explain.

Entire facility. Number of SWMUs is not known.

**Status of Corrective Action Activities at the Facility**

2. What is the current status of HSWA corrective action activities at the facility?

- ☒ No corrective action activities initiated (Go to 5)  
☐ RCRA Facility Assessment (RFA) or equivalent completed  
☐ RCRA Facility Investigation (RFI) underway  
☐ RFI completed  
☐ Corrective Measures Study (CMS) completed  
☐ Corrective Measures Implementation (CMI) begun or completed  
☐ Interim Measures begun or completed

3. If corrective action activities have been initiated, are they being carried out under a permit or an enforcement order?

- ☐ Operating permit  
☐ Post-closure permit  
☐ Enforcement order  
☐ Other (Explain)

4. Have interim measures, if required or completed [see Question 2], been successful in preventing the further spread of contamination at the facility?

- ☐ Yes  
☐ No  
☐ Uncertain; still underway  
☐ Not required

Additional explanatory notes:

## Facility Releases and Exposure Concerns

5. To what media have contaminant releases from the facility occurred or been suspected of occurring?

- ☒ Groundwater
- ☐ Surface water
- ☐ Air
- ☒ Soils

6. Are contaminant releases migrating off-site?

- ☐ Yes; Indicate media, contaminant concentrations, and level of certainty.

Groundwater: \_\_\_\_\_

Surface water: \_\_\_\_\_

Air: \_\_\_\_\_

Soils: \_\_\_\_\_

- ☐ No
- ☒ Uncertain

- 7a. Are humans currently being exposed to contaminants released from the facility?

- ☐ Yes (Go to 8a)
- ☐ No
- ☒ Uncertain

Additional explanatory notes:

Off-site migration of contaminated groundwater is strongly suspected, but has not been confirmed.

- 7b. Is there a potential for human exposure to the contaminants released from the facility over the next 5 to 10 years?

- ☒ Yes
- ☐ No
- ☐ Uncertain

Additional explanatory notes:

The facility is located in the middle of a residential neighborhood.

- 8a. Are environmental receptors currently being exposed to contaminants released from the facility?

- ☐ Yes (Go to 9)
- ☐ No
- ☒ Uncertain

Additional explanatory notes:

Off-site migration of contaminated groundwater is strongly suspected but has not been confirmed.

- 8b. Is there a potential that environmental receptors could be exposed to the contaminants released from the facility over the next 5 to 10 years?

- ☒ Yes
- ☐ No
- ☐ Uncertain

Additional explanatory notes:

Off-site migration of contaminated groundwater is strongly suspected but has not been confirmed.

### Anticipated Final Corrective Measures

9. If already identified or planned, would final corrective measures be able to be implemented in time to adequately address any existing or short-term threat to human health and the environment?

☐ Yes  
☒ No  
☐ Uncertain

Additional explanatory notes:

Final corrective measures have not been identified or planned.

10. Could a stabilization initiative at this facility reduce the present or near-term (e.g., less than two years) risks to human health and the environment?

☒ Yes  
☐ No  
☐ Uncertain

Additional explanatory notes:

VOCs and SVOCs have been found in on-site soil and groundwater. Off-site migration of contaminants is strongly suspected.

11. If a stabilization activity were not begun, would the threat to human health and the environment significantly increase before final corrective measures could be implemented?

☒ Yes  
☐ No  
☐ Uncertain

Additional explanatory notes:

There is a strong possibility that contaminated groundwater could seep into the basements of nearby residences. Some residences have filed complaints about solvent odors in their homes.

### Technical Ability to Implement Stabilization Activities

12. In what phase does the contaminant exist under ambient site conditions? Check all that apply.

☐ Solid  
☒ Light non-aqueous phase liquids (LNAPLs)  
☒ Dense non-aqueous phase liquids (DNAPLs)  
☒ Dissolved in groundwater or surface water  
☐ Gaseous  
☐ Other \_\_\_\_\_

13. Which of the following major chemical groupings are of concern at the facility?

☒ Volatile organic compounds (VOCs) and/or semi-volatiles  
☒ Polynuclear aromatics (PAHs)  
☐ Pesticides  
☐ Polychlorinated biphenyls (PCBs) and/or dioxins  
☐ Other organics  
☐ Inorganics and metals  
☐ Explosives  
☐ Other \_\_\_\_\_

14. Are appropriate stabilization technologies available to prevent the further spread of contamination, based on contaminant characteristics and the facility's environmental setting? [See Attachment A for a listing of potential stabilization technologies.]

(X) Yes; Indicate possible course of action.

Installation of a hydraulic or physical barrier would be a possible course of action for preventing off-site migration of contaminated groundwater.

( ) No; Indicate why stabilization technologies are not appropriate; then go to Question 18.

15. Has the RFI, or another environmental investigation, provided the site characterization and waste release data needed to design and implement a stabilization activity?

( ) Yes  
(X) No

If No, can these data be obtained faster than the data needed to implement the final corrective measures?

(X) Yes  
( ) No

#### Timing and Other Procedural Issues Associated with Stabilization

16. Can stabilization activities be implemented more quickly than the final corrective measures?

(X) Yes  
( ) No  
( ) Uncertain

Additional explanatory notes:

---

---

---

---

---

17. Can stabilization activities be incorporated into the final corrective measures at some point in the future?

(X) Yes  
( ) No  
( ) Uncertain

Additional explanatory notes:

---

---

---

---

---

## Conclusion

18. Is this facility an appropriate candidate for stabilization activities?

- ☒ Yes
- ☐ No, not feasible
- ☐ No, not required
- ☐ Further investigation necessary

Explain final decision, using additional sheets if necessary.

The following information was obtained from a February 25, 1993 letter from MDNR to EPA.

Soil and groundwater at the site are severely contaminated with VOCs and SVOCs. Manufacturing activities at the site have ceased. There is presently no mechanism in place for cleanup.

There is a strong possibility that contaminated groundwater could seep into the basements of nearby residences, several residents have complained about solvent odors in their homes.

Installation of a hydraulic or physical barrier is recommended to prevent off-site migration of contaminated groundwater. However, further sampling to quantitatively determine extent of contamination may be necessary before the above stabilization can be implemented.